IN THE CLAIMS:

1-34. (Cancelled)

- 35. (Currently Amended) An immunogenic protein from of Dictyocaulus viviparus, wherein the protein has a molecular weight of 15,000 to 18,000 daltons, and an isoelectric point. between 5.3 and 5.9.
- 36. (Previously Added) The immunogenic protein according to claim 35, wherein the protein comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1; SEQ ID NO:2; SEQ ID NO:3; SEQ ID NO:4; SEQ ID NO:5; SEQ ID NO:6; and SEQ ID NO:7.
- 37. (Currently Amended) The immunogenic protein according to claim 35, wherein the protein has a molecular weight of 16,000±1,500 daltons and an isoelectric point of 5.6.
- 38. (Previously added) The immunogenic protein according to claim 35, comprising an amino acid sequence of SEQ ID NO:30, or part thereof having immunogenic properties that produces antibodies that provide protection against Dictyocaulus viviparus.

305

934

- 39. (Previously Added) An isolated nucleic acid molecule which encodes the protein according to claim 35.
- 40. (Previously Added) The isolated nucleic acid according to claim 39, wherein the nucleic acid sequence is selected from the group consisting of SEQ ID NO:10; SEQ ID NO:11; SEQ ID NO:12; SEQ ID NO:13; and SEQ ID NO:14.
- 41. (Currently Amended) The isolated nucleic acid according to claim 39, comprising SEQ ID NO:29 or a nucleic acid that hybridizes, under stringent conditions of 6X SSC at 68 °C, to a nucleotide sequence according to SEQ ID NO:29.
 - 42. (Canceled)
 - 43. (Canceled)
 - 44. (Canceled)
 - 45. (Previously Added) A vaccine, comprising:
- a effective amount of the protein according to claim 35, and
 - a suitable adjuvant or carrier.

46. (Currently Amended) A method for immunizing cattle against Dictyocaulus <u>viviparus</u> viviparus, comprising:

administering to a cattle in need thereof a vaccine according to claim 45.

- 47. (Previously Added) A diagnostic kit, comprising: the protein according to claim 35.
- 48. (Previously Added) A diagnostic kit, comprising:
 the polypeptide isolated nucleic acid molecule according to claim 39.
 - 49. (Previously Added) A recombinant vector, comprising: the nucleic acid molecule according to claim 39.
 - 50. (Previously Added) A host cell, comprising: the vector according to claim 49.
- 51. (New) An immunogenic protein of *Dictyocaulus viviparus*, wherein the protein comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1; SEQ ID NO:2; SEQ ID NO:3; SEQ ID NO:4; SEQ ID NO:5; SEQ ID NO:6; SEQ ID NO:7 and SEQ ID:30.

305

934

- 52. (New) An isolated nucleic acid molecule which encodes the protein according to claim 51.
- 53. (NEW) The isolated nucleic acid according to claim 52, wherein the nucleic acid sequence is selected from the group consisting of SEQ ID NO:10; SEQ ID NO:11; SEQ ID NO:12; SEQ ID NO:13; SEQ ID NO:14; and SEQ ID:29.
 - 54. (NEW) A vaccine, comprising:
- a effective amount of the protein according to claim 51, and
 - a suitable adjuvant or carrier.
- 55. (NEW) A method for immunizing cattle against Dictyocaulus viviparus, comprising:

administering to a cattle in need thereof a vaccine according to claim 54.

- 56. (NEW) A diagnostic kit, comprising: the protein according to claim 51.
- 57. (NEW) A diagnostic kit, comprising: the isolated nucleic acid molecule according to claim 52.

- 58. (New) A recombinant vector, comprising: the nucleic acid molecule according to claim 52.
- 59. (NEW) A host cell, comprising: the vector according to claim 58.